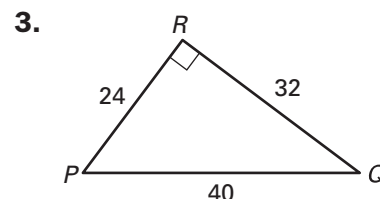
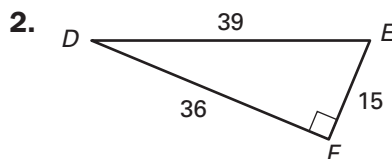
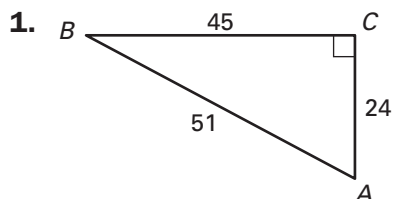


Practice

For use with pages 488–493

Find the tangent of each acute angle. Write your answers as fractions in simplest form.



Use a calculator to approximate the tangent value to four decimal places.

4. $\tan 32^\circ$

5. $\tan 68^\circ$

6. $\tan 43^\circ$

7. $\tan 76^\circ$

8. $\tan 14^\circ$

9. $\tan 82^\circ$

Use the table of trigonometric ratios on page 823 to write the value of the tangent.

10. $\tan 22^\circ$

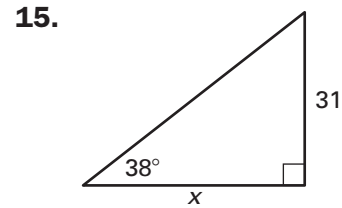
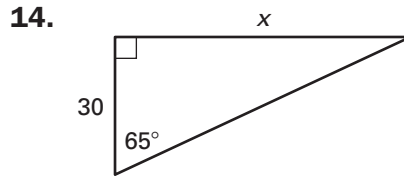
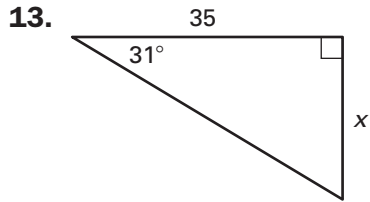
11. $\tan 56^\circ$

12. $\tan 39^\circ$

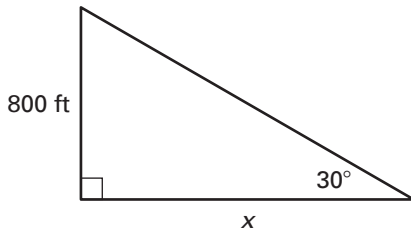
Practice

For use with pages 488–493

In Exercises 13–15, find the value of x . Round to the nearest tenth.



- 16.** A hot air balloon climbs, at a 30° angle to the ground, to a height of 800 feet. To the nearest tenth of a foot, what ground distance has the balloon traveled to reach 800 feet?



- 17.** You are standing 80 feet from the base of a building. You estimate that the angle of elevation from your feet to the top of the building is about 70° . About how tall is the building?

